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Inventors: FISCHER et al. Tel. No.: 202-371-2600

For: Valve Pin Guidance and Alignment System for an

Injection Molding Apparatus

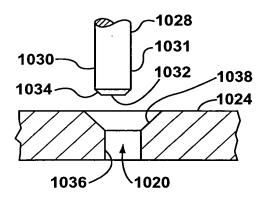


FIG. 2a (PRIOR ART)

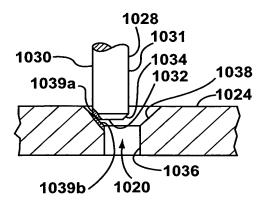


FIG. 2b (PRIOR ART)

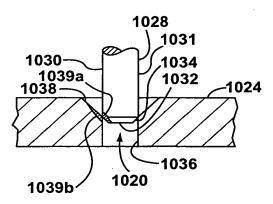


FIG. 2c (PRIOR ART)

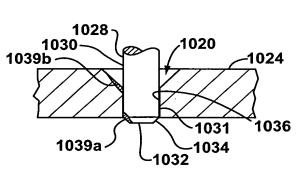
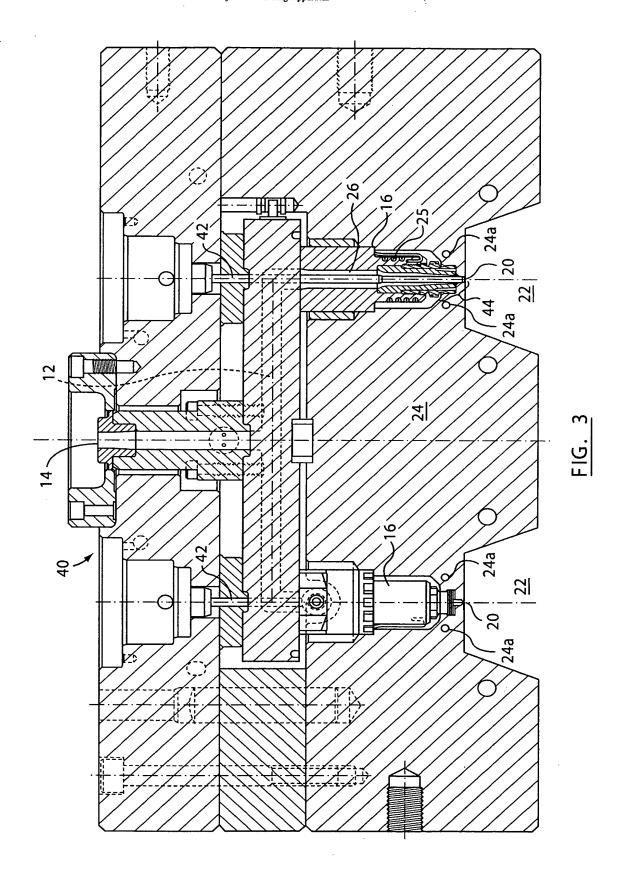


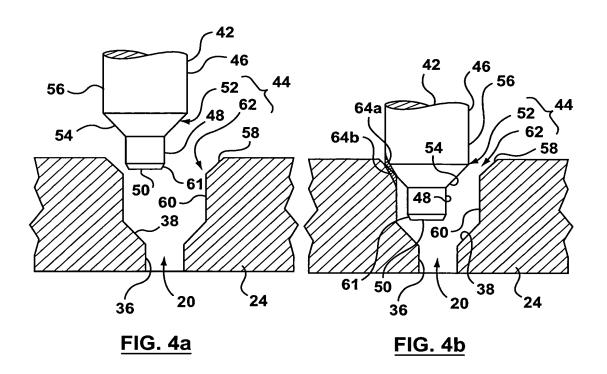
FIG. 2d (PRIOR ART)

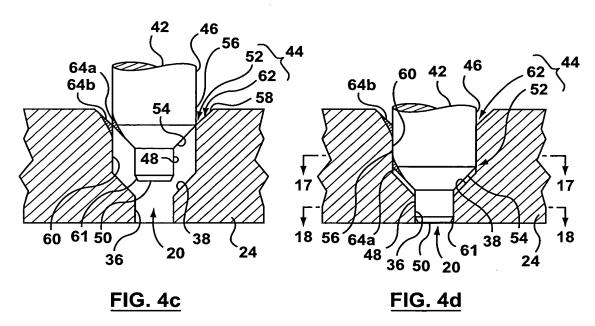
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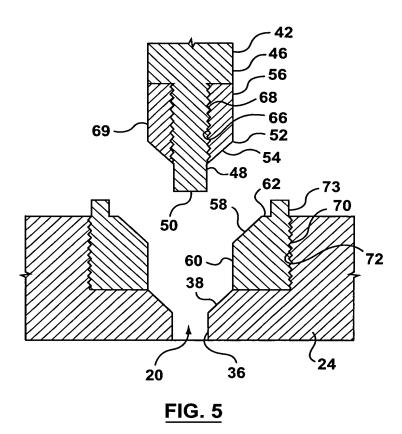


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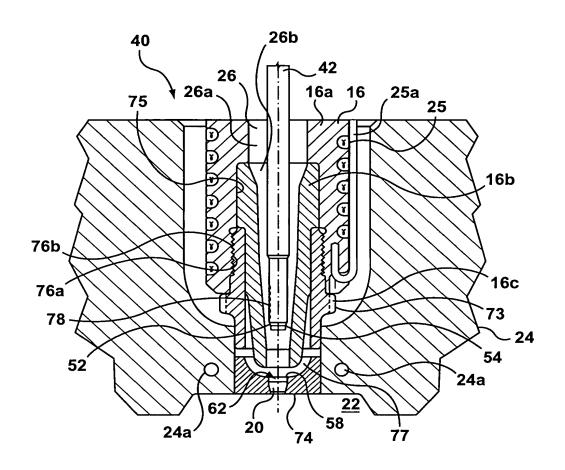


FIG. 6

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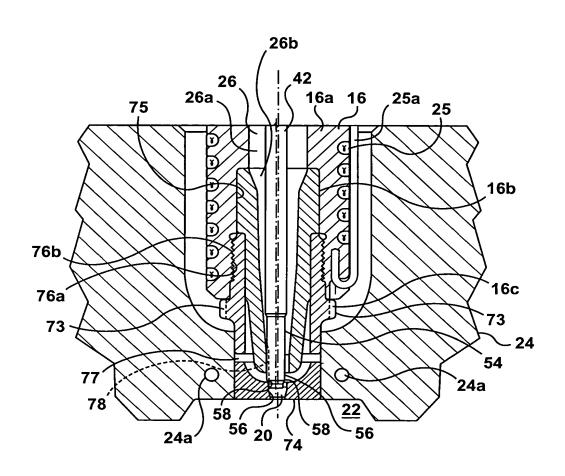


FIG. 7

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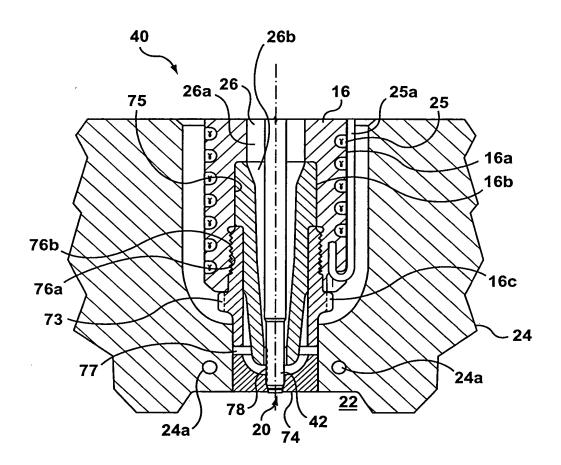
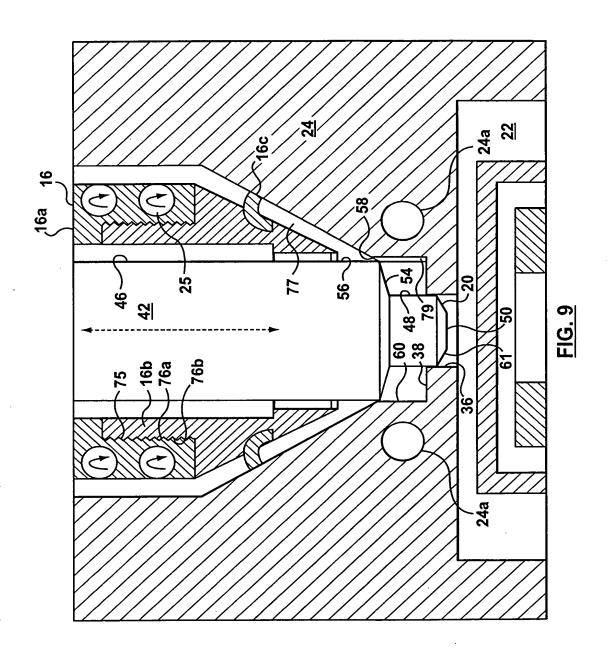


FIG. 8

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Injection Molding Apparatus

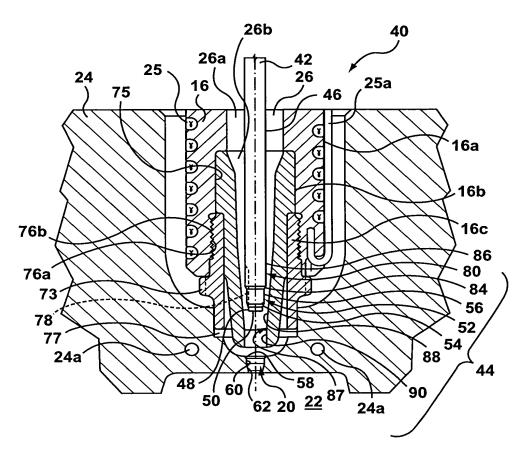


FIG. 10

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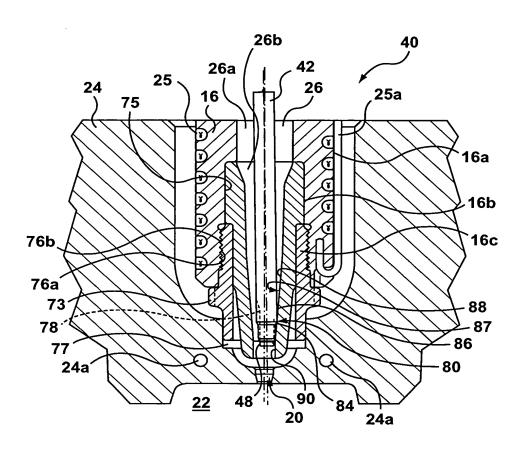


FIG. 11

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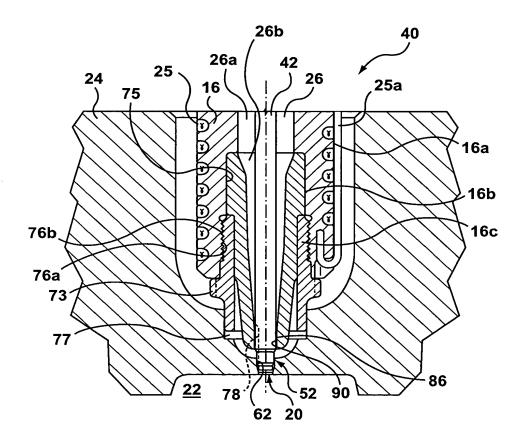


FIG. 12

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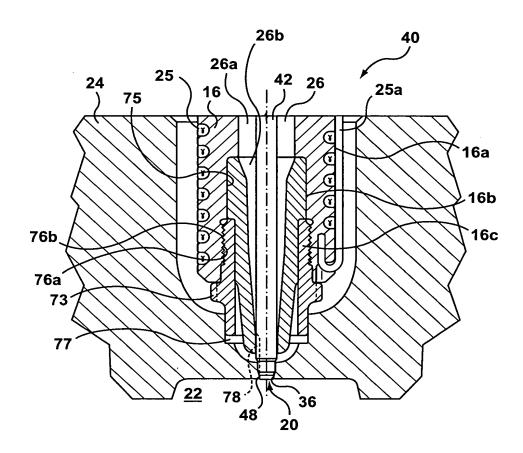


FIG. 13

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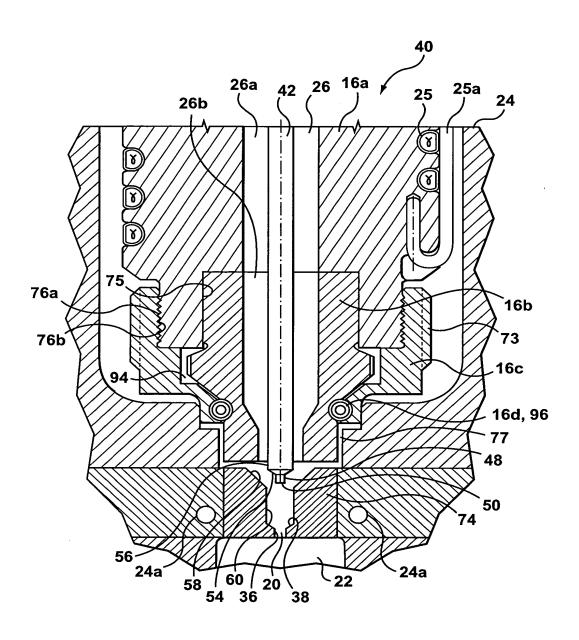


FIG. 14

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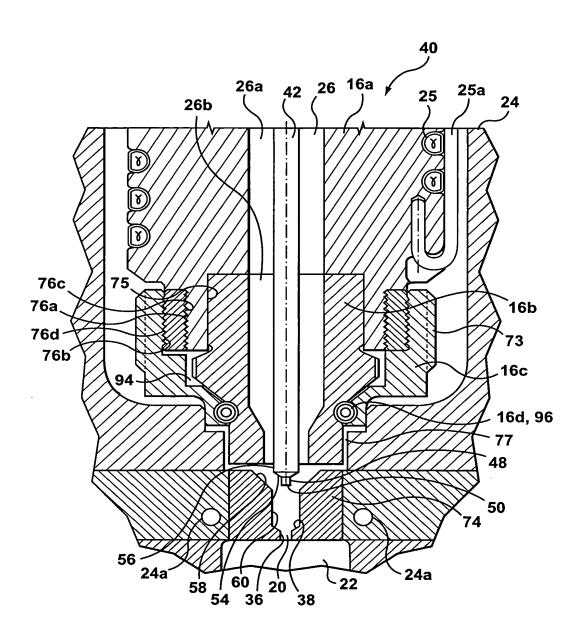


FIG. 15

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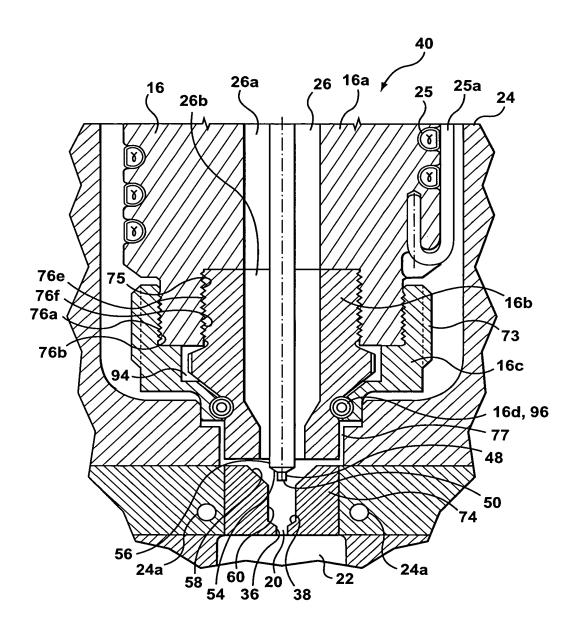


FIG. 16

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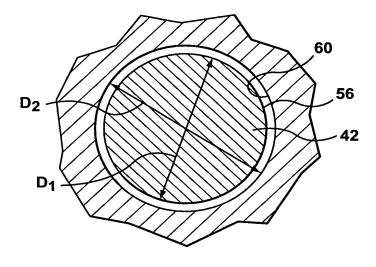


FIG. 17

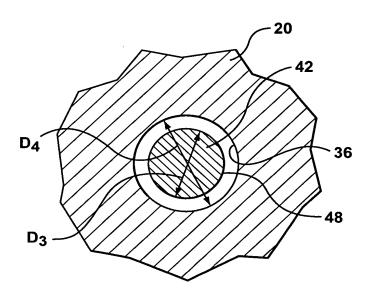


FIG. 18

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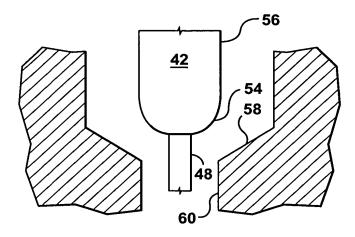


FIG. 19a

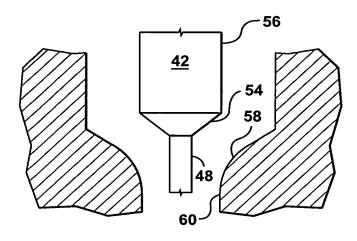


FIG. 19b

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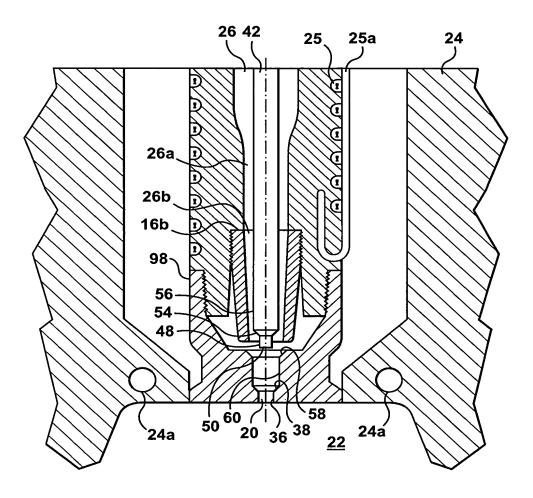


FIG. 20